Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		1		
LM End	0.00	Issue Type +	Ма	Location * N/A				
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item		s & Maintenaı	nce		0		0	
Manuals •							0	
DWR ID DWR_RD0017_01_s _ 2013_1								
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
LMA has a copy of the manual on file.								

No Photos

LM Start	0.00	Rating **	Α	Issue No.		2			
LM End	0.00	Issue Type +	Ма	Location *		N/A			
Category	Catagonia Earthen Levee				atitud	le/Longitude			
Category				Start		End			
Item	Emergency Supplies &						0		
пеш	Equipmen			0		0			
DWR ID	DWR ID DWR_RD0017_01_s _ 2013_2								
		Comn	nent Coc	le					
		Inspecto	or Comm	ent					
LMA has adequate flood fight supplies.									

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		3		
LM End	0.00	Issue Type +	Ма	Location *		N/A		
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Category				Start		End		
Item	Flood Pre	paredness &		0		0		
пеш	0					0		
DWR ID	DWR_RD0	017_01_s _ 201	3_3					
		Comn	nent Cod	le				
		Inspecto	or Comm	ent				
District staff are involved in yearly training sponsored by DWR.								

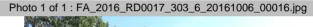
No Photos

LM Start	0.00	0.00 Rating ** A		Issue No.		6
LM End	1.76	Issue Type +	Ma	Location *	ation * WS	
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory		Start		End		
Item	Vegetatio	n		37.9112	48°	37.915962°
пеш				-121.2910	64°	-121.320708°
DWR ID DWR_RD0017_01_s _ 2013_6						
		Comn	nent Coc	10		

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment





Looking south typical view of waterward slope.

Photo 1 of 1: FA_2016_RD0017_303_10_20161006_00017.jpg

LM Start	0.00	Rating **	Α	Issue No.	10		
LM End	1.76	Issue Type +	Ма	Location *	LS		
Category	Category Earthen Levee					le/Longitude	
Category				Start		End	
Item	Vegetatio	n		37.9112	48 °	37.915962°	
пеш				-121.29106	64 °	-121.320708 °	
DWR ID	DWR_RD0017_01_f _ 2016_10						
	Comment Code						

O. Daniel de la Marie de la deservación de la constante de la

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment



Looking south at typical view of landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 French Camp Slough	Left	1.76	10/04/2016 10/04/2016	Richard Willoughby

-								
LM Start	0.38	Rating **	С	Issue No.		12		
LM End	0.38	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees		37.9131	58°	37.913158°		
пеш				-121.2968	68°	-121.296868°		
DWR ID	DWR ID DWR_RD0017_01_s _ 2016_12							
		Comn	nent Cod	de				
T2 : Thin to	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.		
		Inspecto	or Comm	nent				

No Photos

WS : Water Side
CR : Crown

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

FINAL DATA

+ Issue Type
Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

	_							
LM Start	0.77	Rating **	С	Issue No.		77		
LM End	0.77	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroach	ments		37.9061	06°	37.906106°		
пеш	-121.323060 ° -121.3230							
DWR ID	DWR_RD0	017_02_s _ 201	6_77					
		Comn	nent Cod	de				
PR : Pruni	ngs							
		Inspecto	or Comm	nent				
Landowner piling prunings at landward toe.								

No Photos

LM Start	1.08	Rating **	U	Issue No.		2		
LM End	1.08	Issue Type +	Ма	Location *	WS			
Category	Suppleme	GPS Latitude/Longitude						
Calegory			Start		End			
Item	DWR Erosion Survey			37.9025	30°	37.902530°		
item				-121.3256	90°	-121.325690°		
DWR ID								
Comment Code								

Inspector Comment

07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed.

08/13/2013: No significant change at this site.

08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2016 Site ID:RD0017U02RM44.32]



Front view of the erosion site. Note the concrete blocks and vegetation at the site.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	1.08	Rating **	U	Issue No.		2 (cont)			
LM End	1.08	Issue Type +	Ма	Location *	WS				
Category	Suppleme	GPS Lat	itud	e/Longitude					
Calegory			Start		End				
Item	DWR Ero	sion Survey		37.90253	o°	37.902530°			
пеш			-121.32569	o°	-121.325690 °				
DWR ID									
	Comment Code								

Inspector Comment

07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site.

08/07/2012: The erosion is nearly vertical, and has developed upward to halfway of the levee slope. The protecting concrete blocks have been washed away. Animal activities are visible. [2016 Site ID:RD0017U02RM44.32]



Close view of the erosion.

LM Start	1.29	Rating **	С	Issue No.		6		
LM End	1.29	Issue Type +	Ма	Location *	WS			
Category Supplemental				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR Erosion Survey		37.8995	10°	37.899510°			
item			-121.3260	30°	-121.326030 °			
DWR ID								

Comment Code

Inspector Comment

07/25/2016: No sign of erosion observed at the repaired site.

06/24/2015: No significant change observed.

06/19/2014: The erosion has been repaired. A minor erosion is still visible near the tree.

08/13/2013: A mid-size tree is present immediately upstream of the erosion, which could block the view of the site. Some debris is visible. [2016 Site ID:RD0017U02RM44.52]

No Photos

N : Not Inspected/Rated C : Corrected + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

2.66	Rating **	С	Issue No.		8				
2.66	Issue Type +	Ma	Location *		WS				
Suppleme	ental		GPS La	.atitude/Longitude					
			Start		End				
DWR Eros	sion Survey		37.8810	37.881020 ° 37.881020					
			-121.3322	60°	-121.332260 °				
DWR ID									
	Comm	nent Cod	de						
	Inspecto	or Comm	nent						
07/25/2016: No sign of erosion was found at the repaired site.									
06/24/2015: Erosion has been repaired.									
06/19/2014: The erosion was probably caused by the irrigation pipe found at the site. [2016 Site ID:RD0017U02RM45.94]									
	2.66 Suppleme DWR Eros 6: No sign 6: Erosion 1: The eros	2.66 Issue Type + Supplemental DWR Erosion Survey Comm Inspector S: No sign of erosion was seen repair: The erosion was probate.	2.66 Issue Type + Ma Supplemental DWR Erosion Survey Comment Cod Inspector Comment S: No sign of erosion was found as been repaired. Erosion has been repaired. The erosion was probably cau	2.66 Issue Type + Ma Location * Supplemental GPS La Start DWR Erosion Survey 37.8810 -121.3322 Comment Code Inspector Comment S: No sign of erosion was found at the repail	2.66 Issue Type + Ma Location * Supplemental GPS Latitud Start DWR Erosion Survey 37.881020 ° -121.332260 ° Comment Code Inspector Comment S: No sign of erosion was found at the repaired sign of the sign				

No Photos

LM Start 2.67 Rating ** С Issue No. 10 Issue Type + Location * WS 2.69 Ma LM End Supplemental GPS Latitude/Longitude Category End **DWR Erosion Survey** 37.880710° 37.880710° Item -121.332200° -121.332200° DWR ID

No Photos

Comment Code

Inspector Comment

07/25/2016: The construction work on the levee slope has been finished, and the erosion was repaired.

06/24/2015: Levee has been cut at the mid slope and a temporary step has been made for unknown purpose. More erosion has been found at the site.

6/19/2014: The erosion is in the river bank which has an estimated 10-ft wide berm. [2016 Site ID:RD0017U02RM45.95]

N/A: Not Applicable LS: Land Side WS: Water Side

A: Acceptable Minimally Acceptable U : Unacceptable

C : Corrected A/W : Acceptable but Monitor & Maintain

N : Not Inspected/Rated

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	2.78	Rating **	С	Issue No.	82			
LM End	2.79	Issue Type +	Ma	Location *	WS			
Category				GPS Latitude/Longitude				
Calegory	legory			Start		End		
Item	DWR Ero	sion Survey		37.87929	93°	37.879293°		
пеш				-121.3325	18°	-121.332518°		
DWR ID								
	Comment Code							

Inspector Comment

07/25/2016: No sign of erosion observed at the repaired site.

06/24/2015: No significant change observed. 06/19/2014: The erosion has been repaired.

08/13/2013: Found during boat survey. There is vegetation at the site.

[2016 Site ID:RD0017U02RM46.03]

LM Start	2.82	Rating **	M	Issue No.		83			
LM End	2.82	Issue Type +	Ma	Location *	WS				
Category	Suppleme	ental		GPS La	atitud	le/Longitude			
Category				Start		End			
Item	DWR Erosion Survey 37.878660 °				37.878660 °				
пеш				-121.332400 °		-121.332400 °			
DWR ID									
Comment Code									
		Inspecto	or Comm	ent					
		ficant change							
	06/24/2015: No significant change observed.								
06/19/2014: A pocket erosion was found during the boat survey. [2016 Site ID:RD0017U02RM46.1]									
Site ID:RD	00170026	(IVI46.1]							

LM Start	2.82	Rating **	М	Issue No.	83 (cont)
LM End	2.82	Issue Type +	Ма	Location *	WS





Front view of the erosion.

Photo 2 of 2: SJR2016_RD0017U02RM46.1_3.jpg



Close view of the erosion. The slope protection is poor.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	3.63	Rating **	С	Issue No.		84	
LM End	3.63	Issue Type +	Ма	Location *	WS		
Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	DWR Erosion Survey			37.8685	00°	37.868500 °	
пеш				-121.3276	70°	-121.327670°	
DWR ID							
Comment Code							

Inspector Comment

07/25/2016: The erosion has been repaired. No new erosion found at the repaired site.

06/24/2015: No significant change observed.

06/19/2014: The erosion is near a large tree and probably has been

caused by the irrigation pipe on the site. [2016 Site

ID:RD0017U02RM46.89]

LM Start	3.73	Rating **	U	Issue No.		75
LM End	3.73	Issue Type +	Ма	Location *	WS	
Category Earthen Levee			GPS La	atitud	le/Longitude	
Calegory				Start		End
Item	Animal Co	ontrol		37.8672	33°	37.867233°
пеш				-121.3267	12°	-121.326712°
DWR ID	DWR ID DWR_RD0017_02_f _ 2016_75					
		Comn	nent Coc	de		
A3 : No roo compact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and
		Inspecto	or Comm	nent		
Large breaver holes on waterward berm						

Photo 1 of 2 : FA_2016_RD0017_304_75_20161006_00202.jpg



Looking east at beaver den on waterward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	3.73	Rating **	U	Issue No.		75 (cont)
LM End	3.73	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Animal Co	ontrol		37.8672	33°	37.867233 °
					-121.326712°	
DWR ID	DWR_RD0	017_02_f _ 201	6_75			
		Comn	nent Cod	de		
A3 : No roo compact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and
		Inspecto	or Comm	nent		
Large breaver holes on waterward berm						



Looking southwest at district excavating and backfilling beaver dens on waterward slope.

LM Start	4.98	Rating **	С	Issue No.		78
LM End	5.12	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End
Item	Animal Control			37.8548	75°	37.853192°
item			-121.3195	42 °	-121.320200 °	
DWR ID	DWR_RD0	017_02_s _ 201	6_78			
		Comn	nent Cod	de		
A1 : Extern	minate rod	ents and back	fill and o	compact or	grou	t burrows.
		Inspecto	or Comm	nent		
Grouting rodent holes on landward slope						

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	5.52	Rating **	A/W	Issue No.	76		
LM End	5.52	Issue Type +	Ма	Location *	LS		
Catagory Earthen Levee			GPS La	atitud	le/Longitude		
Calegory	Category			Start		End	
Item	Animal Co	ontrol		37.8501	18°	37.850118°	
item				-121.3201	88 °	-121.320188 °	
DWR ID DWR_RD0017_02_s _ 2012_76							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Rodent holes has been backfilled, but should be monitored.

No Photos

No Photos

LM Start	6.74	Rating **	С	Issue No.		79
LM End	6.74	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
Category			Start		End	
Item	Vegetatio	n		37.8388	10°	37.838810°
пеш				-121.3166	00°	-121.316600 °
DWR ID	DWR_RD0	017_02_s _ 201	5_79			·

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Removed cactus from waterward slope.

LM Start	7.25	Rating **	С	Issue No.		18	
LM End	7.25	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory						End	
Item	Trim / Thi	n Trees		37.8326	12°	37.832612°	
item				-121.3120	93 °	-121.312093 °	
DWR ID	DWR_RD0	017_02_s _ 201	3_18				

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

* Location

LS: Land Side N/A: Not Applicable

WS : Water Side N/A : Not Applic

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type
Ma : Maintel

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	7.42	Rating **	С	Issue No.		4
LM End	7.42	Issue Type +	Ма	Location *		LS
Earthen Levee				GPS La	atitud	e/Longitude
Category				Start		End
Item	Trim / Thin Trees			37.8303	50°	37.830350°
пеш				-121.310880 °		-121.310880 °
DWR ID	DWR_RD0	017_02_s _ 201	2_4			
		Comn	nent Coc	de		
T1: Trim t	rees to at l	east five feet	above g	round level		
			_			
		Inspecto	or Comm	nent		

No Photos

LM Start	7.58	Rating **	М	Issue No.		25	
LM End	7.60	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start End			
Vegetation Item				37.828095°		37.827920°	
item				-121.3099	45°	-121.309847°	
DWR ID	DWR_RD0	017_02_s _ 201	2_25				
Comment Code							
V4 : Elderk	perries are	blocking visib	ility and	flood fight	capa	ability.	

Inspector Comment



Elderberry blocking view of landside slope and toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

LM Start	8.93	Rating **	С	Issue No.		81	
LM End	8.93	Issue Type +	Ma	Location *	LS		
Cotogony	Earthen Levee			GPS Latitude/Longitude			
Category			Start		End		
Trim / Thin Trees			37.818792°		37.818792 °		
Item				-121.314824°		-121.314824°	
DWR ID DWR_RD0017_02_s _ 2016_81							
Comment Code							
T1 : Trim trees to at least five feet above ground level.							
Inspector Comment							

No Photos

LM Start	9.29	Rating **	М	Issue No.	9		
LM End	9.29	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetation			37.815270°		° 37.815270°	
item			-121.317692 °		-121.317692°		
DWR ID DWR_RD0017_02_s _ 2012_9							
Comment Code							
V4 : Elderberries are blocking visibility and flood fight capability.							
Inspector Comment							
Bamboo at landside toe.							

Photo 1 of 1 : FA_2016_RD0017_304_9_20160929_00010.jpg



Looking east at bamboo at landward toe.

LM Start	10.64	Rating **	М	Issue No.	80		
LM End	10.64	Issue Type +	Ma	Location *	LS		
Category Earthen Levee		GPS Latitude/Longitude					
		Start		End			
Item	Vegetation		37.805787°		37.805787	0	
item				-121.322022 °		-121.322022	0
DWR ID DWR_RD0017_02_s _ 2015_80							
Comment Code							

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0017 Mossdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	14.27	10/04/2016 10/04/2016	Richard Willoughby

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy

Ob : Design & System Obsolescence
En : Enforcement